	Application No.	Applicant(s)	20
Notice of Allowability	09/937,086	BLUM ET AL.	$\mathbb{Q}(1)$
	Examiner	Art Unit	\top
	Rabon Sergent	1711	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not incluning the inclunication will be mailed in du	ıded ıe course. THIS
1. $igspace$ This communication is responsive to <u>telephonic interview o</u>	of March 10, 2004.		
2. \boxtimes The allowed claim(s) is/are <u>23-36 and 38-46</u> .			
3. The drawings filed on are accepted by the Examine	r.		
4. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminsFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposit of the priority of the priority of the deposit of the priority of the priority documents and the deposit of the priority documents have application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposit of the priority documents have application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposit of the priority documents and the deposit of the priority documents have a priority documents have a priority documents have a priority document and the priority documents have a priority document have a priority documents have a priority document have a priority docu	e been received. e been received in Applicate cuments have been received in Application. of this communication to find ENT of this application. whitted. Note the attached EX es reason(s) why the oath est be submitted. son's Patent Drawing Reviews Amendment / Comment of the header according to 37 (so it of BIOLOGICAL MAC)	ion No ed in this national stage appli le a reply complying with the XAMINER'S AMENDMENT of or declaration is deficient. ew (PTO-948) attached or in the Office action of the drawings in the front (not CFR 1.121(d). TERIAL must be submitted	requirements r NOTICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Paper No 08), 7. ⊠ Examiner	Informal Patent Application (Informal Patent Application (Information	Allowance

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Gary Matz on March 10, 2004.

Amend claims 23, 40, 45, and 46 as follows:

- 23. (Amended) A polyurethane solution containing alkoxysilane structural units, wherein the polyurethane is the reaction product of
- a) at least one at least difunctional polyol having an hydroxyl number of from 8 to 200,
- b) at least one at least difunctional polyisocyanate having a molecular weight of 140 to 1,500,
- c) at least one low molecular weight at least difunctional alcohol and/or amine having a molecular weight of 32 to 500,
- d) at least one compound containing at least one alkoxysilane group and an isocyanatereactive group, and
- e) optionally, a monofunctional compound containing an amino, alcohol or oxime group, other than a compound falling within the scope of component d), in the presence of an organic solvent, wherein the equivalents of component d) are at least 50% of the total equivalents of components d) and e) and wherein the number of terminal alkoxysilane groups must be at least 50 wt.% of all the incorporated alkoxysilane groups and

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wherein the theoretical content of -Si-(O-)₃ structural units is less than 1.2 wt.%, based on the total solids content of the polyurethane.

- 40. (Amended) The process of Claim 39 which comprises
- a) reacting components a), b), and optionally c) in a one-stage reaction, optionally in the presence of solvents, to obtain an isocyanate-functional polyurethane,
- b) optionally adding an additional amount of polyisocyanate b) and/or low molecular weight difunctional component c) until a viscosity of from 1,000 to 200,000 mPas (at 23°C) and molecular weight (Mn) of from 4,000 to 500,000 is achieved, and
- c) chain-stopping the reaction by adding a monoamino-functional compound d) containing an alkoxysilane group.
- 45. (Amended) A polyurethane solution containing alkoxysilane structural units, wherein the polyurethane is the reaction product of
- a) at least one at least difunctional polyol having an hydroxyl number of from 8 to 200 and a molecular weight of up to 16,000,
- b) at least one at least difunctional polyisocyanate having a molecular weight of 140 to 1,500,
- c) at least one low molecular weight at least difunctional alcohol and/or amine having a molecular weight of 32 to 500,
- d) at least one compound containing at least one alkoxysilane group and an isocyanatereactive group, and

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- e) optionally, a monofunctional compound containing an amino, alcohol or oxime group, other than a compound falling within the scope of component d), in the presence of an organic solvent, wherein the equivalents of component d) are at least 50% of the total equivalents of components d) and e) and wherein the number of terminal alkoxysilane groups must be at least 50 wt.% of all the incorporated alkoxysilane groups and wherein the theoretical content of –Si-(O-)₃ structural units is less than 1.2 wt.%, based on the total solids content of the polyurethane.
- 46. (Amended) A polyurethane solution containing alkoxysilane structural units, wherein the polyurethane is the reaction product of
- a) at least one at least diffunctional polyol having a molecular weight of 561 to 16,000,
- b) at least one at least difunctional polyisocyanate having a molecular weight of 140 to 1,500,
- c) at least one low molecular weight at least difunctional alcohol and/or amine having a molecular weight of 32 to 500,
- d) at least one compound containing at least one alkoxysilane group and an isocyanatereactive group, and
- e) optionally, a monofunctional compound containing an amino, alcohol or oxime group, other than a compound falling within the scope of component d), in the presence of an organic solvent, wherein the equivalents of component d) are at least 50% of the total equivalents of components d) and e) and wherein the number of terminal alkoxysilane groups must be at least 50 wt.% of all the incorporated alkoxysilane groups and

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wherein the theoretical content of –Si-(O-)₃ structural units is less than 1.2 wt.%, based on the total solids content of the polyurethane.

Any inquiry concerning this communication should be directed to Rabon Sergent at telephone number (571) 272-1079.

RABON SERVENT

R. Sergent

March 10, 2004

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The following is an examiner's statement of reasons for allowance: The instant invention is deemed to be allowable over the closest prior art of record, considered to be Moren et al. ('651), because the prior art fails to disclose or render obvious the claimed alkoxysilane containing polyurethane solutions having a theoretical content of –Si-(O-)₃ structural units of less than 1.2 wt.%, based on the total solids content of the polyurethane.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to Rabon Sergent at telephone number (571) 272-1079.

R. Sergent

March 10, 2004